

 R_1 =OH, R_2 =CH $_3$ Erythromycin A (2) R_1 =H, R_2 =CH $_3$ Erythromycin B R_1 =R $_2$ =H Erythromycin D

Figure 1

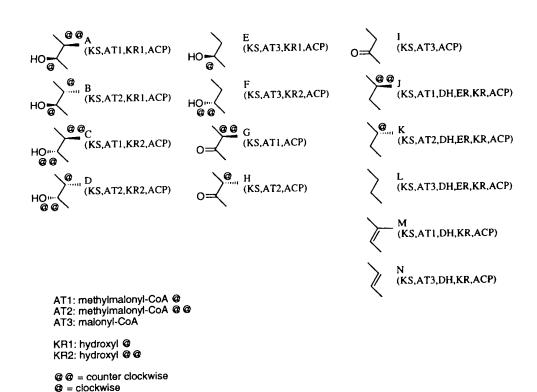
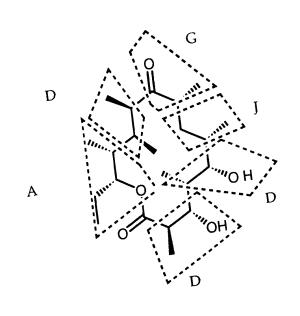


Figure 2



CHUCKLES: ADGJDD

SMILES: C1(=O)-[C@H](C)[C@@H](OH)-[C@@H](C)[C@@H](C)-[C@@H](C)C-[C@@H](C)C(=O)-[C@H](C)[C@@H](C)-[C@@H](C)[C@@H](CC)O1

Figure 3

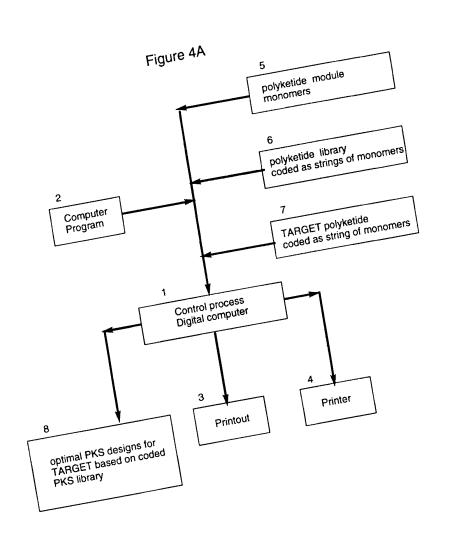
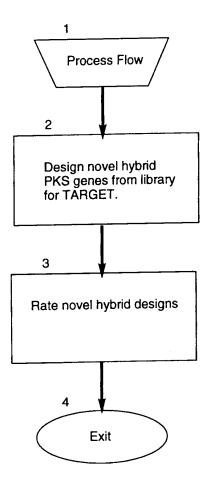
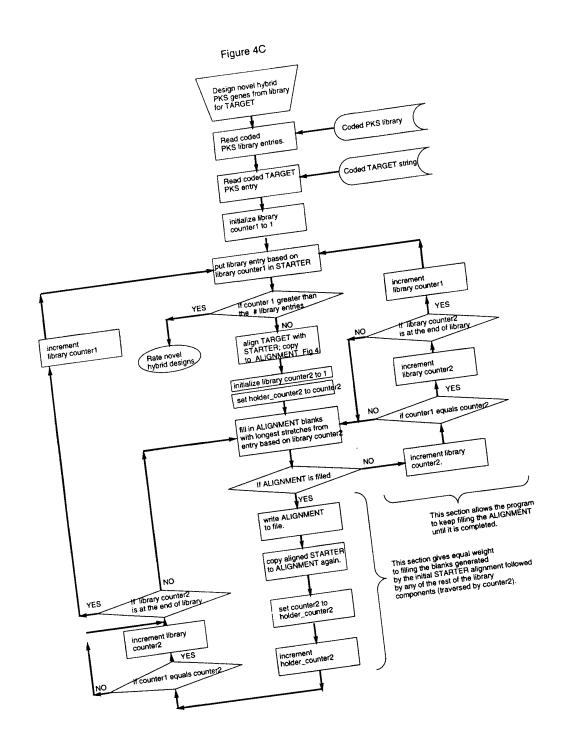


Figure 4B





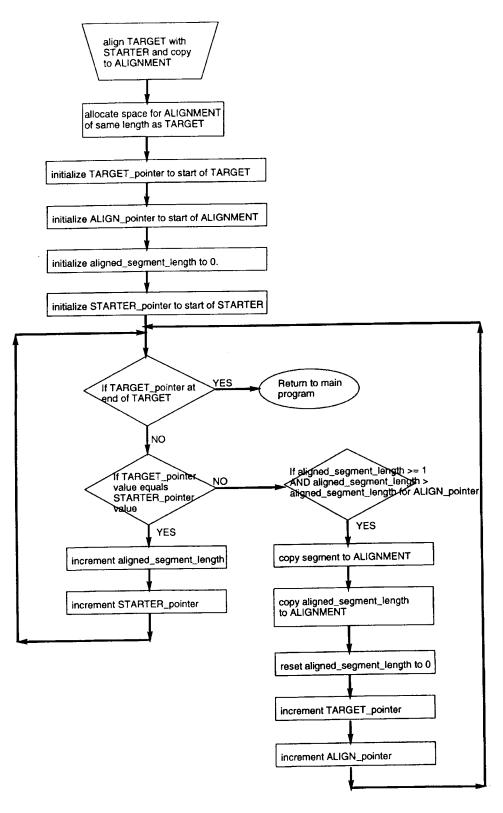


Figure 4D

Rating novel hybrid designs

Loop through novel PKS designs, calculating number of non-native calculating number of non-native inter-module interfaces (n).

For the known PKS genes, calculate the number of inter-protein interfaces (p).

Sort entries based on n and p, giving higher precedence for n.

Figure 5

